

SUBJECT: Condenser for D.C. operation - LA, MA, and Gardner models.

DATE: October 9, 1934

TO ALL OFFICES:

On Order Information Form 477-S, motor specifications are requested. This is necessary for your records as well as for Orange records, even though the model supplied is operated by a Universal motor.

Where these models are requisitioned from Orange for D.C. operation, our standard procedure is to add a condenser in the circuit to provide proper speed control. The reason for using a condenser on D.C. is to dampen the arc at the governor contact points as the arc has a current carrying capacity which destroys the normal speed control of the governor.

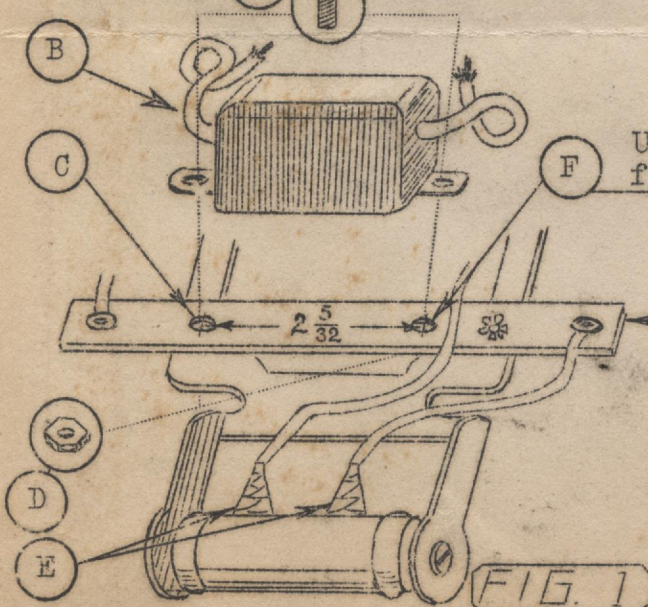
Where delivery is made direct from district stock by applying machines containing standard motor equipment which does not always include a condenser, a condenser should be added to the circuit provided the motor specifications call for D.C. operation.

We are furnishing you herewith with complete instructions covering the installation of condensers for such purposes.

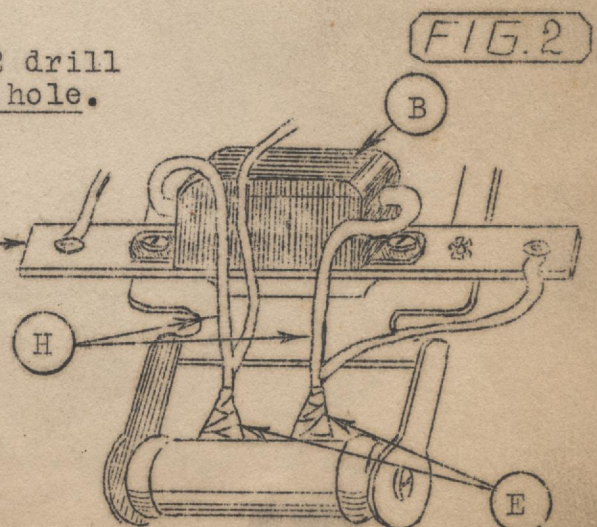
Condenser 2895 $\frac{1}{4}$  is used for 100 to 135 D.C. voltage  
 Condenser 2896 $\frac{1}{4}$  is used for 140 to 185 D.C. voltage  
 Condenser 2897 $\frac{1}{4}$  is used for 190 to 220 and  
 225 to 250 D.C. voltage

LA

- 1- Remove eyelet from hole (C).
- 2- Drill a hole in bakelite strip (G) at (F) as shown in Figure 1.
- 3- Place condenser (B) over holes (C) and (F) and secure with two #6 screws (A) and #1256 nuts (D).
- 4- Attach leads (H) to resistor points (E).



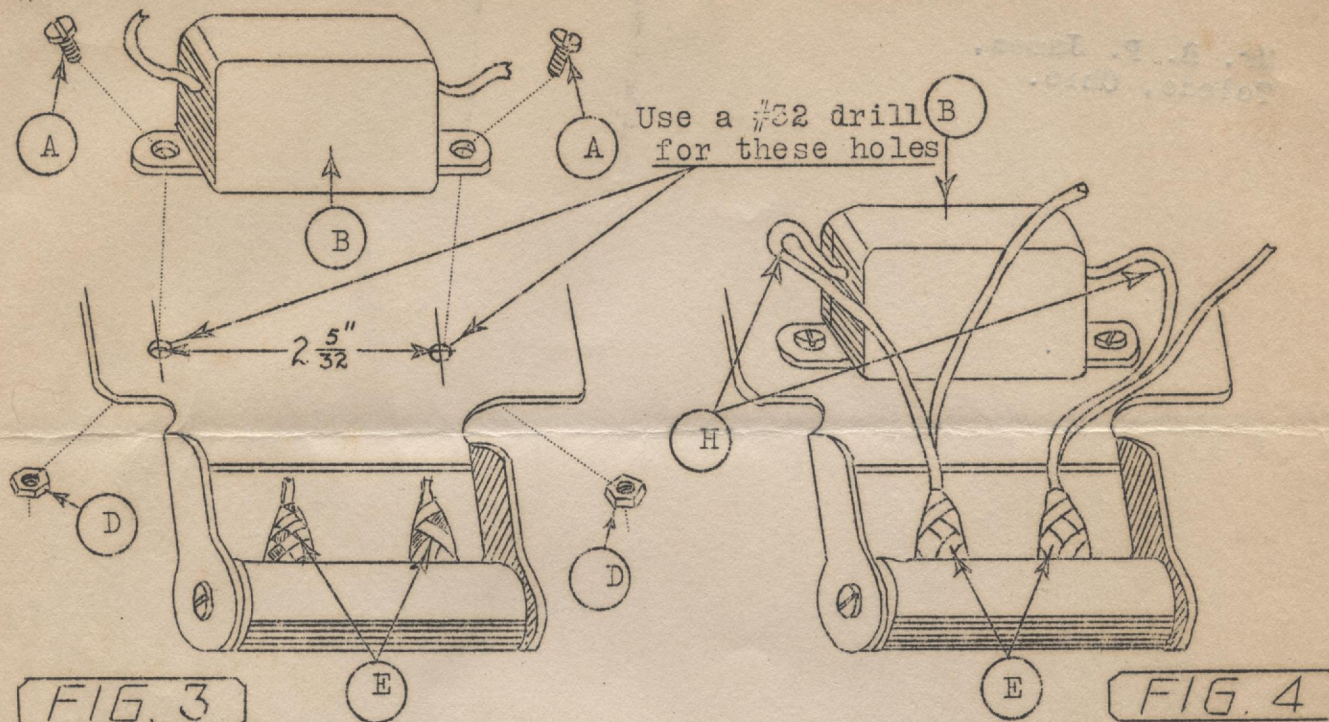
Use a #32 drill for this hole.





MA

Drill holes in motor plate as per specifications, and secure condenser (B) to the motor plate with #6 screws (A) and #1256 nuts (D). Attach leads (H) to resistor points (E).



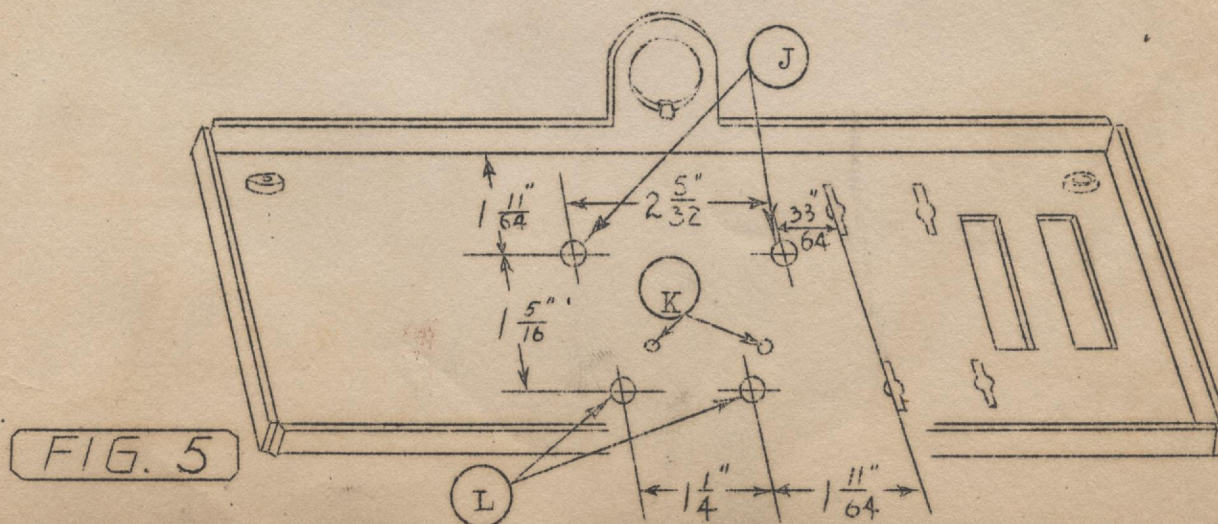
GARDNER

- 1 - Remove resistor unit from position over holes (K).
- 2 - Drill holes (J) and (L) as per specifications given below, using a #29 drill for holes (L) and a #32 drill for holes (J).
- 3 - Fasten resistor unit to the motor plate by inserting screws formerly removed from holes (K), through holes (L) and the resistor bracket.
- 4 - Secure condenser to motor plate with two #6 screws and #1256 nuts. Attach leads of condenser to resistor points.

F. M. Smith

FMS: TG

General Service Manager





Mr. B. P. James,  
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